88888888888888888888888888888888888888	000000000 000000000	000000000 000000000 000000000		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
888 888 888 888 888 888	000 000 000 000 000 000 000 000	000 000 000 000 000 000		\$\$\$ \$\$\$ \$\$\$ \$\$\$
888 888 888 8888888888 888888888888888	000 000 000 000 000 000	000 000 000 000 000 000	111 111 111	\$\$\$ \$\$\$ \$\$\$\$\$\$\$\$\$\$\$
88888888888888888888888888888888888888	000 000 000 000 000 000	000 000 000 000 000 000	††† ††† †††	\$\$\$\$\$\$\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$
888 888 888 888 888	000 000 000 000 000	000 000 000 000		SSS
88888888888888888888888888888888888888	00000000 00000000 00000000	00000000 00000000 00000000	111 111 111	\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	HH H	000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$				

SHOWADAP Table of	contents	- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 VAX/VMS Macro V04-00	Page	0
(2) (4) (4) (4) (4) (4)	89 204 294 320 370 458 523	DECLARATIONS BOO\$SHOWADAP - SHOW/ADAPTERS routine Boo\$Output_Desc - Output a line Show_CPU - Show CPU specfic data - BOO\$ADAPTER_NAME - generic adapter name parsing Get_All_Adap - Get all adapters into readable format Read_Confreg - Read adapter configuration array TPARSE adapter name parsing routines		

Page (1)

```
.TITLE SHOWADAP - SHOW ADAPTER and GENERIC ADAPTER NAMES
```

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; FACILITY: SYSGEN

ABSTRACT:

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0000 0000 16

THIS ROUTINE PROVIDES GENERIC ADAPTER NAMES FOR SYSGEN

ENVIRONMENT: USER, EXEC MODE

AUTHOR: Jake VanNoy

CREATION DATE: 30-APR-1981

MODIFICATION HISTORY:

V03-006 TCM0002 Trudy C. Matthews 25-Jul-1984 Change venus cpu model number from 11/790 to 8600.

V03-005 KPL0100 Peter Lieberwirth 10-feb-1984 Change CONFREG to CONFREGL, a longword-array of adapter types.

Permit undefined adapter types without signalling an error, foreign adapters are anticipated on the BI.

V03-004 WHM0002 Bill Matthews 01-Feb-1984 No adapter default is now -1 not 0. B00\$RESET_ADAP was modified.

V03-003 WHM0001 Bill Matthews 31-Jan-1984 Add support for mixed 16k and 64k memory display.

V03-002 KDM0084 Kathleen D. Morse 23-Sep-1983

- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 VAX/VMS Macro V04-00 Page 2 (1)

58 :		Add MicroVAX I and MicroVAX II to CPUDIS	SP.
60 :	v03-001	TCM0001 Trudy C. Matthews Re-write code that displays CPU model no new format CPUDISP macro. Add support	03-Aug-1983 umber to use the for 785 model display.
64 : 65 : 66 : 67 : 68 :	v02-007	JLV0139 Jake VanNoy Remove revision number code because of g with formatting of data, will wait for C calls to do this. Replace calls to LIBSE with calls to RIO\$OUTPUT_LINE.	2-Jan-1981 problems ETSYI PUT_OUTPUT
70 : 71 :	v02-006	JLV0118 Jake VanNoy Added code to report errors in B00\$ADAP1	9-Nov-1981 TER_NAME.
73 74 75 76	v02-005	JLV0091 Jake VanNoy Expand number of bytes in boo\$ab_count_t Also removed MPM's and DR's from 'gener' classification.	22-Sep-1981 olk. ic''
78 : 79 : 80 :	v02-004	JLV0086 Jake VanNoy Added 64 bit memory support and changed are done.	15-Sep-1981 the way lookups
82 :	v02-003	JLV0041 Jake VanNoy Added G^ to LIB\$ call.	13-Jul-1981
85 86 87	v02-002	JLV0035 Jake VanNoy Added CI definition.	6-Jul-1981
	58901234566789012345677777789012345678988888888888888888888888888888888888	58 59	Add MicroVAX I and MicroVAX II to CPUDIS V03-001 TCM0001 Trudy C. Matthews Re-write code that displays CPU model no new format CPUDISP macro. Add support for the code of the

```
- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 DECLARATIONS 4-SEP-1984 23:06:02
                                                                                               VAX/VMS Macro V04-00
[BOOTS.SRC]SHOWADAP.MAR;1
                                         .SBTTL DECLARATIONS
                                INCLUDE FILES:
                                CONSTANTS:
0000000A
00000014
                             boo$c_count_blk = 20
                               MACROS:
                                         SNDTDEF
                                         $PRDEF
                                         $SYSGMSGDEF
                                         STPADEF
                             $VIELD
                                        B00,0,<-
                                         <GENERIC
                                                          .,M>,-
              0000
0000
0000
0000
0000
0000
0000
0000
00000000
                             L_CONSTANT
W_FLAGS
W_INDEX
                                                                             CONSTANT = NDT adapter type code only flag is GENERIC, means memory or DR32 INDEX is sysgen-specific, used to associate
                                                    = 0
                                                    =
00000006
                                                    = 6
                                                                             occurance counts with adapters, MBA=0, UBA=1, CI=2
80000008
                                                    = 8
                             L_NAME
                                                                             Offset to ASCID string containing adapter name
                              .Macro Adapter constant, string=<>, flags = 0, index
              PSECT PAGED_DATA_2
                                                                          rd, wrt, noexe, quad
                                         .LONG
                                                    CONSTANT
                                                   FLAGS
                                         WORD
                                                    /STRING/
                                         .ASCID
                                         .PSECT
                                                   PAGED_DATA
                                                                          rd,wrt,noexe,quad
                             .Endm
                                        adapter
                                OWN STORAGE:
        00000000
                             .PSECT PAGED_DATA
                                                               rd, wrt, noexe, quad
              0000
0000
0000
0000
0100
00000040
                        140
                             Maxnexus = 64
                                                                                                 : maximum is 4 Bls
00000100
00000140
00000240
                             Boo$ab_confreq_blk:
Boo$ab_adap_idx:
Boo$ab_adap_txt:
                                                               .blkl
                                                                          maxnexus
                                                               .blkb
```

maxnexus

maxnexus

.blkl

```
- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 VAX/VMS Macro V04-00 Page 5
DECLARATIONS 4-SEP-1984 23:06:02 [B00TS.SRC]SHOWADAP.MAR;1
```

```
172 : ADAPTER TABLE
                                                                                 Boosal_adap_table:
    adapter NDTS_MEM4NI,
    adapter NDTS_MEM4I,
    adapter NDTS_MEM16NI,
    adapter NDTS_MEM1664NI,
    adapter NDTS_MEM1664NI,
    adapter NDTS_UB0,
    adapter NDTS_UB0,
    adapter NDTS_UB1,
    adapter NDTS_UB2,
    adapter NDTS_UB3,
    adapter NDTS_UB3,
    adapter NDTS_UB3,
    adapter NDTS_MPM0,
    adapter NDTS_MPM1,
    adapter NDTS_MPM1,
    adapter NDTS_MPM3,
    adapter NDTS_MEM64NIL,
    adapter NDTS_MEM64NIL,
    adapter NDTS_MEM64EIU,
                                                                                                                                                                                                                       <4K memory, non-interleaved>
                                                                                                                                                                                                                    <4K memory, non-interleaved>
<4K memory, interleaved>
<16K memory, non-interleaved>
<16K memory, interleaved>
<16K memory, interleaved>
<Mixed 16K and 64K memory, non-interleaved>
<MB>, Boo$m_generic, 0
<UB>, Boo$m_generic, 1
<UB>, Boo$m_generic, 1
<UB>, Boo$m_generic, 1
<UB>, Boo$m_generic, 1
<UB>, Boo$m_generic, 2
<MPMO>
                                                                     178
179
181
182
183
184
186
188
190
191
193
                                                                                                                                                                                                                       <MPMO>
                                                                                                                                                                                                                       <MPM1>
                                                                                                                                                                                                                       <MPM2>
                                                                                                                                                                                                                       <MPM3>
                                                                                                                                                                                                                       <DR32>
                                                                                                                                                                                                                     <64K non-interleaved memory, lower controller>
<64K externally interleaved memory, lower controller
<64K non-interleaved memory, upper controller>
<64K externally interleaved memory, upper controller
<64K internally interleaved memory>
                                                                     194
195
196
197
                                                                                                                      adapter NDTS_MEM641,
00000000
                                                                                                                                                                                      ; End of table
                                                                                                                       .long
                                                                     198
199
                                                                                            Note: The maximum index for generic adapters above must less than or equal to
                                                                     200
201
202
                                                                                            the constant boosc_count_blk.
```

00B9'CF

00000000 GF

000001A1'EF

0140'CF

6542

0040

0040

DO

```
- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09
BOOSSHOWADAP - SHOW/ADAPTERS routine 4-SEP-1984 23:06:02
                                                                                                            VAX/VMS Macro V04-00
[BOOTS.SRC]SHOWADAP.MAR; 1
                                                                                                                                                  Page
                                                         .Sbttl BOO$SHOWADAP - SHOW/ADAPTERS routine
                                              : FUNCTIONAL DESCRIPTION:
                                                        Scan CONFREG and output text associated with each adapter. Text is to match exactly what a user would type for the /ADAPTER qualifier or the AUTOCONFIGURE "adapter" command.
                                                CALLING SEQUENCE:
                                                        Called from TPARSE as an action routine
                                                INPUT PARAMETERS:
                                                        None.
                                                IMPLICIT INPUTS:
                                                        CONFREG.
                                                OUTPUT PARAMETERS:
                                                        RO
                                                                   Completion code
                                                IMPLICIT OUTPUTS:
                                                        NONE
                                             ; Register usage
                                        238
239
                         00000000
                                                        .PSECT PAGED_CODE
                                                                                        rd, nowrt, exe, long
                      O7FC
                                             .Entry BOO$SHOW_ADAPTER, ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10>
                         FB
E8
DD
FB
                  00
50
                                                                  #0, w^Show_Cpu
R0,5$
                                                        calls
                                                                                                     Show CPU specific data
                                                        blbs
                                                                                                      Branch if OK
                                                                   RO
                                                        pushl
                                                                                                      Push error code
                  01
                                                                   #1,G^Lib$Signal
                                                                                                     Signal and continue
                                                        calls
00000366 EF
000000A4 EF 01
                                             5$:
                                                        pushal
                                                                   header
                                                                                                     Set up header
                         FB
                               0019
                                                        calls
                                                                   #1,Boo$Output_Desc
                                                                                                   ; Output header
                  00
50
                         FB
E8
31
                                             10$:
                                                                   #0,Get_All_Adap
R0,15$
80$
                                                        calls
                                                                                                     Fill in Adap_txt and Adap_idx
                                                                                                     Branch if ok
Exit
                                                        blbs
                0076
                                                        PLM
                         04
00
9E
9E
                                             15$:
                                                        clrl
      00000000 · EF
                                                                                                      initialize index
                               002F
0036
003B
                                                                   exe$gl_numnexus,R3
w^boo$ab_adap_idx,R4
                                                                                                      Set count (User readable location)
                                                        movl
                                                        movab
                                                                                                      Adapter index table
```

w^boo\$ab_adap_txt,R5

(R5)[R2],R7

: Adapter text table

; Get address of text descriptor

movab

Movl

20\$:

56 644	B 19	0046 26 004A 26	3	blss	(R4)[R2],R6 30\$; Get index count ; Branch if non-generic
•	7 11		2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	\$FAO_S	Ctrstr = w^ctr_generic,- Outbuf = w^rio\$ab_outbuf Outlen = w^rio\$gw_outler P1 = R2,- P2 = R7,- P3 = R6 40\$: Format string :- : Nexus number : Adapter text prefix address : Count
		0067 2 0067 2 0067 2 0067 2 0067 2 0067 2	72 73 30\$: 75 76	\$FAO_S	Ctrstr = w^ctr_memory,- Outbuf = w^rio\$ab_outbut Outlen = w^rio\$gw_outler P1 = R2,-	Format string Nexus number
		0067 27	77		P2 = R7	; Adapter text address
0B 5	0 E8	007E 27	9 40\$:	blbs	RO,50\$; branch if no error from fao
00000000°GF 0	0 DD 11 FB 13 11	0081 28 0081 28 0083 28 008A 28	30 31 45\$: 32 33 34 35 50\$:	pushl calls brb	RO #1.G^Lib\$Signal 60\$: Set error code : Signal Error : goto end of loop
AD 52 FF7	1' 30 3 F2			bsbw aoblss	rio\$output_line R3,R2,20\$; Output line ; Loop
00000394'E	F DF	0093 28	36 60\$: 37 38 39 90 91 92 80\$:	pushal calls	trailer #1,800\$Output_Desc	; Set up blank line trailer ; Output header
50 0	1 DO 04	00A0 29 00A0 29 00A3 29	91 92 80\$:	movl	#1,R0	

```
- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09
Show_CPU - Show CPU specfic data 4-SEP-1984 23:06:02
SHOWADAP
                                                                                                                                         VAX/VMS Macro V04-00
[BOOTS.SRC]SHOWADAP.MAR;1
V04-000
                                                                                                                                                                                            (4)
                                                                     .Sbttl Show_CPU - Show CPU specfic data
                                             003C
                                                                      .Entry Show_CPU, ^M<R2,R3,R4,R5>
                                                                                                                               ; Set up blank line
; Output
                                               DF
FB
E9
                           00000394 'EF
                                                                                 pushal trailer
                            DF AF
                                                                                            #1,Boo$Output_Desc
                                                                                 calls
                                    60
                                                                                             RO, End_show_cpu
                                                                                 blbc
                                                                                                                                ; branch on error
                                                                        This cumbersome way of picking up the CPU model number display is used so that all CPU-dependent code is flagged by the use of the CPUDISP macro.
                                                                                 .list
                                                                                            meb
                                                                                 cpudisp
                                                                                            <<780,c780_model>,-
<750,c750_model>,-
<730,c730_model>,-
                                                                                              <790,c790_model>,-
                                                                                              <UV1.cUV1_model>.-
                                                      00C8
00C8
00C8
00CF
00D1
                                                                                              <UV2.cUV2_model>,-
<785,c785_model>>
                                                                                            G^EXE$GB_CPUTYPE, -
30014$
#23,G^EXE$GB_CPUDATA,30014$
c785_model
                                                                                 CMPB
                           00000000°GF
                                                                                 BNEQ
               03 00000000°GF
                                                                                 BBC
                                     004E
                                                                                 BRW
                                                      OODC
                                                                      30014$:
                                               8F
            08
                    01
                           00000000°GF
                                                                                 CASEB
                                                                                            G^EXESGB_CPUTYPE, #$$BASE, #$$LIMIT
                                                                      30015$:
                                                                                 .SIGNED_WORD c780
.SIGNED_WORD c750
.SIGNED_WORD c730
.SIGNED_WORD c790
.IIF EQ $$GENSW,
                                                                                                        c780_model-30015$
c750_model-30015$
c730_model-30015$
                                             0016'
001E'
                                                                                                        c790_model-30015$
                                             0012
0012
0036'
                                                                                                                               2*<$$LIMIT+1>
2*<$$LIMIT+1>
                                                                                                                    . WORD
                                                                                                  SSGENSW
                                                                                             EQ
                                                                                                                     . WORD
                                                                                                        cUV1_model-30015$
cUV2_model-30015$
c785_model-30015$
^XFEFF
                                                                                  .SIGNED_WORD
                                                                                  .SIGNED_WORD
                                             0046
                                             FEFF
0004
                                                                                             . WORD
                                                                                             .IIF IDN <FATAL>, <FATAL> , .WORD
                                                                                                                                                       BUG$_UNSUPRTCPU!4
                                                                                  .nlist meb
                                                                     c780_model:
                           00000254 'EF
                                               DF
11
                                                                                 pushal c780
                                                                                 brb
                                                                                             output_model
                                                                     c750_model:
                           0000026C'EF
                                                DF
11
                                                                                 pushal c750
                                                                                 brb
                                                                                             output_model
                                                                     c730_model:
                           00000284 'EF
                                                                                 pushal c730
brb outpu
                                                DF
11
                                                                                             output_model
                                                                     c790_model:
                           0000029C'EF
                                                DF
11
                                                                                            c790
                                                                                 pushal
                                                                                 brb
                                                                                             output_model
                                                                      cUV1_model:
                           000002CC'EF
                                                                                 pushal
                                                                                            cUV1
                                                                                             output_model
                                                                     cUV2_model:
                           000002E8'EF
                                                DF
                                                                                 pushal cUV2
```

```
- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09
- BOO$ADAPTER_NAME - generic adapter nam 4-SEP-1984 23:06:02
                                                                                                                                                             11 (4)
                                                                                                              [BOOTS.SRC]SHOWADAP.MAR: 1
                                              .sbttl - BOO$ADAPTER_NAME - generic adapter name parsing
                              FUNCTIONAL DESCRIPTION:
                                                         Scan CONFREG and output text associated with each adapter. Text is to match exactly what a user would type for the /ADAPTER qualifier or the AUTOCONFIGURE "adapter" command.
                                                 CALLING SEQUENCE:
                                                         Called from TPARSE as an action routine
                                                 INPUT PARAMETERS:
                                                         TPA$L_NUMBER(AP) - Number in generic specifier (e.g. 0 if 'UBO'')
                                                 IMPLICIT INPUTS:
                                                         CONFREG.
                                         390
391
392
393
394
395
                                                         str_size and str_start - Set up by previous TPARSE routines as
                                                                    length and character string in generic adapter type.
                                                 OUTPUT PARAMETERS:
                                                         RO
                                                                    Completion code
                                        396
397
398
400
401
402
403
404
                                                 IMPLICIT OUTPUTS:
                                                         TPA$L_NUMBER(AP) is set to appropriate nexus number.
                                                Register usage
                                                       Base address of adap_idx array Base address of adap_txt array
                                                R5
                                                R6
                                                    - Index through loop
                                                R7 - addr(adapter text)
R8 - occurance of this type adapter
R9 - Size in bytes of input adapter string
                                                R10 - Address of input adapter string
R11 - Size in bytes of array (16 for 1 SBI, 32 for 2)
                       OFFC
                                              .Entry Boo$Adap@er_Name, ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                                                    w^str_size,R9
                         13
9E
            0305°CF
                                                         movl
                                                                                                       Size of adapter name string
                                        418
419
421
423
423
426
                                                         begl
                                                                                                       Branch to invalid name error if zero
            030D 'CF
                                              10$:
                                                         movab
                                                                    w^str_start,R10
                                                                                                       Address of adapter name
                               0144
0148
014E
014E
0150
                         FB
E9
000001A1'EF
                                                         calls
                                                                    #0,Get_All_Adap
                                                                                                       Fill in Adap_txt and Adap_idx
              46
                                                         blbc
                                                                    RO.40$
                                                                                                       Branch if error
                         D4
D0
9E
                                                         clrl
                                                                                                       initialize index
                                                                    exe$gl_numnexus,R11
w^boo$ab_adap_idx,R4
                                                                                                       Set count (User readable location)
                                                         movl
                                                         movab
                                                                                                     : Adapter index table
```

VAX/VMS Macro VO4-00

Page

0140°CF

6546

6446

57

58

1C AC

1C AC

D8 56

00000000 GF

007C80BA 8F 1C AC 01

50

04 B7

59

6A

B1 12

D1 12

> 29 12

D0

F2

DO

DD FB

50

01

01A1

w^boo\$ab_adap_txt,R5

(R5)[R6],R7

(R4)[R6],R8

R11,R6,20\$

#1,R0

#sysg\$_invadap,R0
#1,Tpa\$l_number(AP)

RO #1,G^Lib\$Signal

movab

movl

cvtbl

aoblss

movl

mnegl

pushl

calls

movl

ret

20\$:

30\$:

35\$:

40\$:

50\$:

Page 12 (4)

;	Adapter text table
	Get address of text descriptor Branch if zero Get index count Branch if non-generic
:	Compare lengths

cmpc3 R9,(R10),@4(R7) ; Comapre actual strings bneq 30\$; Branch if not equal

movl R6,Tpa\$l_number(AP) ; Set adapter number brb 50\$

: Loop R11 times, incrementing R6

; Set error ; Set adapter number

; push error status ; Signal error

: Set success : return

13

```
O3FC
                                          460123465678
4646678
                                               .Entry
                                                         Get_all_adap,^M<R2,R3,R4,R5,R6,R7,R8,R9>
                           E9
     03 000003AB'EF
                                                                    called_flag,10$
                                                                                                   ; Branch if first call here
                                                         blbc
                  008B
                                01AA
                                                                                                   : Exit, no work necessary
                                                         DEM
                                 01AD
                                 01AD
                                              105:
                                                         $CMEXEC_S w^Read_Confreg
blbs RO,15$
                                                                                                      Read confreg into user readable area
                 01 50
                           E8
                                 01BA
                                                                                                      Branch on success
                                 01BD
                                                         ret
                                                                                                   : return with error
                                 01BE
                           9E
9A
94
F5
              0240 °CF
                                              15$:
                                                         movab
                                                                    w^boo$ab_count_blk,R3
                                                                                                      Count block
                                                         movzbl
                                                                    #boo$c_count_bTk,R4
                                                                                                     size
                                               20$:
                                                                    (R3) +
                                                         clrb
                                                                                                     zero it out
                    54
                FB
                                                                    R4,20$
                                                         sobgtr
                                                                                                     Loop
                                01CB
                                01CB
                           D4
D0
9E
9E
9E
                                                         clrl
                                                                                                      initialize index
                                                                   exe$gl_numnexus,R1
w^boo$ab_confreg_blk,R2
w^boo$ab_count_blk,R3
w^boo$ab_adap_idx,R4
w^boo$ab_adap_txt,R5
         00000000 'EF
                                01CD
01D4
                                                                                                      Set count (User readable location)
                                                         movl
              0000°CF
                                                         movab
                                                                                                      Set address of output block
              0240 °CF
                                0109
                                                         movab
                                                                                                      Count block
                                01DE
01E3
              0100'CF
                                                         movab
                                                                                                      Adapter index table
              0140 °CF
                                                         movab
                                                                                                     Adapter text table
                                               405:
              56
                                                                    (R2) + R6
                                                         movl
                                                                                                      Get adapter ($NDTDEF) type
                                01EB
                                                         begl
                                                                                                   : Branch if nothing on nexus
         000003AF 'EF
                           9E
                                01ED
                                                         movab
                                                                    boo$al_adap_table,R7
                                                                                                   ; Set address of descriptor array
                                                 arrays adap idx and adap txt is now filled in for this nexus.

adap txt will always be non-zero for a nexus with a known adapter
on it. adap idx will be a positive integer (0 through n) indicating
                                         489
490
491
492
493
494
495
                                                 its occurance count, or negative indicating that it is a memory
                                                 adapter with no generic name.
                           D0
13
D1
12
              58
                                              50$:
                                                                    (R7) + R8
                                                         movl
                                                                                                     Get next block (defined by Adapter)
                    21
56
F6
                                01F7
                                                                    80$
                                                         beal
                                                                                                     Adapter type not found
              68
                                                                    R6, L_constant(R8)
                                                         cmpl
                                                                                                      Adapter type match ?
                                                                                                     Loop if not
                                                         bnea
                           8E
E1
           6440
                                                         mnegb
                                                                    #1,(R4)[R0]
                                                                                                   : Assume not generic
                                                                    #boo$v_generic,
w_flags(R8),60$
                                                         bbc
            00
                                                                                                     Branch if not
          59
                           3C
90
96
                                                                   windex(R8),R9
(R3)[R9],(R4)[R0]
                                                         movzwl
                                                                                                     Set adapter type index
         6440
                                                         movb
                                                                                                      Move occurance count to adap_idx array
                                                         incb
                                                                    (R3)[R9]
                                                                                                      Increment occurance count
                           9E
                                              60$:
       6540
                                                         movab
                                                                                                     Set text descriptor address
                                                                    l_name(R8),(R5)[R0]
                                                         brb
                                                                                                   end of loop
                                              80$:
                                                                                                     Unrecognized adapter type
Set 'Unknown' text descriptor address
                           9E
94
11
                                                                   unk_adap,(R5)[R0]
(R4)[R0]
6540
         0000039C'EF
                                                         movab
                                                         clrb
                                                                                                     No adapter count
                                                         prp
                                                                    (R4)[R0]
(R5)[R0]
                                                         clrb
                                                                                                     No adapter count
```

; No adapter text

clrl

SHOWADAP V04-000 - SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 VAX/VMS Macro V04-00 Page 14 Get_All_Adap - Get all adapters into rea 4-SEP-1984 23:06:02 [BOOTS.SRC]SHOWADAP.MAR;1 (4)

B7 50 51 F2 022D 516 100\$: aoblss R1,R0,40\$; Loop R1 times
000003AB'EF 01 CE 0231 518 mnegl #1,called_flag ; Set flag indicating routine called
50 01 D0 0238 519 110\$: movl #1,R0 ; Set success

```
- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 VAX/VMS Macro V04-00 Read_Confreg - Read adapter configuratio 4-SEP-1984 23:06:02 [B00TS.SRC]SHOWADAP.MAR;1
                                                                                                                                                         Page
                                           .sbttl Read_Confreg - Read adapter configuration array
                   001C
                                            .Entry READ_CONFREG, M<R2,R3,R4>
                                            ; EXEC mode routine to read CONFREG into user-mode readable area
00000000°EF
00000000°EF
53 0000°CF
                     D0
D0
9E
                                                                  exe$gl_confregl.R2 ; Set address of confreg
exe$gl_numnexus.R4 ; Set count
w^boo$ab_confreg_blk,R3 ; Set address of output block
                                                       movl
                                                       movl
                                                       movab
                     DO
F5
                                           10$:
                                                                                                      : 4 bytes (1 CONFREGL entry) at a time : Loop until done
                                                       movl
                                                                   (R2)+,(R3)+
                                                       sobgtr
                                                                  r4,10$
                     D0
04
       50
            01
                                                       movl
                                                                   #1,R0
                                                                                                      ; Set success
                                                                                                      ; Return
                                                       ret
```

- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 VAX/VMS Macro V04-00 Page 16
TPARSE adapter name parsing routines 4-SEP-1984 23:06:02 [B00TS.SRC]SHOWADAP.MAR;1 (4)

	0000	025B 543 025B 543 025B 543	.Entry		adapter name parsing rou set_Adap, ^M<>	itines
0309°CF 0305°CF 0300°CF 01	D4 9E CE	025D 540 025D 540 0261 540 0268 540		clrl movab mnegl	w^str_size w^str_start,w^str_addr #1,tpa\$l_number(AP)	; Zero size ; Set start address ; Assume adapter zero
	04	0260 55		ret		; Return
	0000	026D 55	.Entry	Boo\$Ad	ap_Letter, ^M<>	
51 0309°CF 81 18 AC 0309°CF 51 0305°CF	90 90 06 04	026D 553 026F 555 0274 556 0278 557 027D 558 027D 558 0281 559 0282 566		movl movb movl incl ret	w^str_addr,R1 tpa\$b_char(AP),(R1)+ R1,w^str_addr w^str_size	; Current string pointer ; Move and increment address ; Set new address ; Increment size
		0282 56		FND		

```
- SHOW ADAPTER and GENERIC ADAPTER NAMES 16-SEP-1984 00:03:09 VAX/VMS Macro V04-00 4-SEP-1984 23:06:02 [BOOTS.SRC]SHOWADAP.MAR;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17
   SHOWADAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page
  Symbol table
                                                                                                                                          = 000002A9 R
= 00000001
= 0000000A
= 00000001
= 00000001
= 00000001
= 00000001
= 00000001
                                                                                                                                                                                                                                                                                                                                                                                                                                    = 00000012
= 00000011
= 00000010
= 00000008
= 00000069
= 00000068
= 00000068
= 00000068
                                                                                                                                                                                                                                                                                 NDTS MEM1664NI
NDTS MEM16I
NDTS MEM16NI
NDTS MEM4I
NDTS MEM64EIL
NDTS MEM64EIL
NDTS MEM64EIL
NDTS MEM64I
NDTS MEM64NI
NDTS MEM64EIL
N
  SSBASE
SSDISPL
SSGENSW
  SSHIGH
SSLIMIT
   SSLOW
   SSMNSW
   SSMXSW
                                                                                                                                                                                                                                                                                                                                                                                                                                    = 0000006A
= 00000040
= 00000041
= 00000043
  SST2
                                                                                                                                                  = 00000005

= 00000001

00000100 R

00000140 R

00000000 R

00000240 R

00000260 RG

000003AF R

= 00000001

00000044 RG

0000025B RG

00000000 RG

= 000000000 RG
BIT...
BOOSAB_ADAP_IDX
BOOSAB_ADAP_TXT
BOOSAB_CONFREG_BLK
BOOSAB_COUNT_BCK
BOOSADAPTER_NAME
                                                                                                                                                                                                                                                                                                                                                                                                                                            00000028
00000029
0000002A
0000002B
00000130 R
                                                                                                                                                                                                                                                                                                                                                                                                                                      =
                                                                                                                                                                                                                                                                                                                                                                                                                                      =
 BOOSADAPTER NAME
BOOSADAP_LETTER
BOOSAL_ADAP_TABLE
BOOSC_COUNT_BLK
BOOSM_GENERIC
BOOSOUTPUT_DESC
BOOSRESET_ADAP
                                                                                                                                                                                                                                                                                                                                                                                                                                      =
                                                                                                                                                                                                                                                                                                                                                                                                                                      =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04
                                                                                                                                                                                                                                     04
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000002
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000001
   BOOSSHOW ADAPTER
                                                                                                                                                                                                                                      04
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000009
BOOSV GENERIC
BUGS UNSUPRICPU
C730
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000004
                                                                                                                                                             00000284 R
0000010A R
00000102 R
00000102 R
00000254 R
00000254 R
00000294 R
0000012A R
0000012A R
0000032D R
0000032D R
0000032D R
0000034B R
0000032C R
0000011A R
000002E8 R
00000122 R
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000008
                                                                                                                                                              ******
                                                                                                                                                                                                                                     = 00000007
 C730_MODEL
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000008
                                                                                                                                                                                                                                                                                                                                                                                                                                                 0000023C RG
  C750_MODEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04044
                                                                                                                                                                                                                                                                                                                                                                                                                                                 *******
                                                                                                                                                                                                                                                                                                                                                                                                                                                *******
C780
C780_MODEL
C785
C785_MODEL
C790
C790_MODEL
CALLED_FLAG
CTR_GENERIC
CTR_MEMORY
CUVT
                                                                                                                                                                                                                                                                                                                                                                                                                                                *******
                                                                                                                                                                                                                                                                                                                                                                                                                                                 *******
                                                                                                                                                                                                                                                                                                                                                                                                                                                 000000B9 RG
                                                                                                                                                                                                                                                                                    SHOW_CPU
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000001
00000309 R
00000305 R
0000030D R
                                                                                                                                                                                                                                                                                   SIZ...
STR_ADDR
STR_SIZE
STR_START
SYS$CMEXEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02
02
02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GX
                                                                                                                                                                                                                                                                                                                                                                                                                                                ******
                                                                                                                                                                                                                                                                                     SYS$FAO
                                                                                                                                                                                                                                                                                                                                                                                                                                                *******
CUV1_MODEL
CUV2
CUV2_MODEL
END_SHOW_CPU
EXE$GB_CPUDATA
EXE$GB_CPUTYPE
EXE$GL_CONFREGL
EXE$GL_NUMNEXUS
GET_ALC_ADAP
HEADER
                                                                                                                                                                                                                                                                                    SYSG$ INVADAP
TPA$B CHAR
TPA$L NUMBER
TRAILER
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 007C80BA
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000018
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 0000001C
                                                                                                                                                                                                                                                                                                                                                                                                                                                 00000394 R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02
                                                                                                                                                                                                                                                                                   UNK ADAP
W_FEAGS
W_INDEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                 0000039C R
                                                                                                                                                               *******
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000004
                                                                                                                                                                *******
                                                                                                                                                                                                                                                                                                                                                                                                                                      = 00000006
                                                                                                                                                                *******
                                                                                                                                                               *******
                                                                                                                                                                                                                                      04
02
                                                                                                                                                              000001A1 RG
00000366 R
                                                                                                                                                    = 0000000A
  LIB$SIGNAL
                                                                                                                                                                *******
  L_CONSTANT
                                                                                                                                                     = 00000000
                                                                                                                                                     = 00000008
   MAXNEXUS
                                                                                                                                                     = 00000040
  NDTS_CI
NDTS_DR32
NDTS_MB
                                                                                                                                                    = 00000038
                                                                                                                                                    = 00000030
                                                                                                                                                     = 00000020
```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
ABS . \$ABS\$ PAGED_DATA PAGED_DATA_2 PAGED_CODE	00000000 (0.) 00000000 (0.) 00000407 (1031.) 000002DA (730.) 00000282 (642.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.)	NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR	CON ABS CON REL CON REL CON REL	LCL NOSHR NOEXE NORI LCL NOSHR EXE RI LCL NOSHR NOEXE RI LCL NOSHR NOEXE RI LCL NOSHR EXE RI	WRT NOVEC BYTE WRT NOVEC QUAD WRT NOVEC QUAD

Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
1-1-1-11		00.00.00.00	00.00.00.01
Initialization		00:00:00.09	00:00:00.91
Command processing	116	00:00:00.72	00:00:04.00
Pass 1	33 116 270	00:00:06.52	00:00:13.07
Symbol table sort	0	00:00:00.41	00:00:00.70
Pass 2	115	00:00:01.88	00:00:03.88
Symbol table output	115	00:00:00.08	00:00:00.10
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	551	00:00:09.73	00:00:22.70

The working set limit was 1500 pages.
56346 bytes (111 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 274 non-local and 37 local symbols.
561 source lines were read in Pass 1, producing 45 object records in Pass 2.
27 pages of virtual memory were used to define 23 macros.

! Macro library statistics !

Macro Library name	Macros defined
_\$255\$DUA28:[BOOTS.OBJ]BOOTS.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	9
"\$255\$DUA28:[SYSLIB]STARLET.MLB:2	9
TOTALS (all libraries)	14

404 GETS were required to define 14 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$: SHOWADAP/OBJ=OBJ\$: SHOWADAP MSRC\$: SHOWADAP/UPDATE=(ENH\$: SHOWADAP) + EXECML\$/LIB+LIB\$: BOOTS.MLB/LIB

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